

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/564,886
Source: FEWP
Date Processed by STIC: 1-30-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/564,886

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 ☐ Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

- 3 ☐ Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

- 4 ☐ Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

- 5 ☐ Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 ☐ PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

- 7 ☐ Skipped Sequences
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

- 8 ☐ Skipped Sequences
(NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

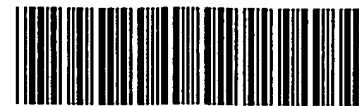
- 9 ☐ Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

- 10 ☐ Invalid <213>
Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

- 11 ☒ Use of <220> Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence **or** "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 ☐ PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 ☐ Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWP

RAW SEQUENCE LISTING

DATE: 01/30/2006

PATENT APPLICATION: US/10/564,886

TIME: 14:49:24

Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

3 <110> APPLICANT: McGill University, Office of Technology Transfer
 4 Sonenberg, Nahum
 5 Lopez-Lastra, Marcelo
 7 <120> TITLE OF INVENTION: Method for Inducing Hepatitis C Virus (HCV) Replication in
 Vitro,
 8 Cells and Cell Lines Enabling Robust HCV Replication and Kit
 9 Therefor
 11 <130> FILE REFERENCE: 11168.242
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/564,886
 C--> 14 <141> CURRENT FILING DATE: 2006-01-17
 16 <150> PRIOR APPLICATION NUMBER: CA 2,454,540
 17 <151> PRIOR FILING DATE: 2004-02-06
 19 <150> PRIOR APPLICATION NUMBER: CA 2,436,104
 20 <151> PRIOR FILING DATE: 2003-07-14
 22 <160> NUMBER OF SEQ ID NOS: 37
 24 <170> SOFTWARE: PatentIn version 3.2
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 266
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Hepatitis C virus
 32 <220> FEATURE:
 33 <221> NAME/KEY: misc_feature
 34 <222> LOCATION: (157)..(157)
 35 <223> OTHER INFORMATION: n = G or T
 37 <400> SEQUENCE: 1
 38 cactccccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat 60
 40 gagtgtcgtg cagcctccag gacccccctt cccgggagag ccatagtggc ctgcggaacc 120
 W--> 42 ggtgagtaca ccggaattgc caggacgacc gggctccttc ttggataaac ccgctcacat 180
 44 gcctggagat ttgggcgtgc ccccgcaaga ctgctagccg agtagtggtg ggtcgcgaaa 240
 46 ggccttggtg tactgcctga tagggt 266
 49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 265
 51 <212> TYPE: DNA
 52 <213> ORGANISM: Epstein Barr virus
 54 <400> SEQUENCE: 2
 55 cactccccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat 60
 57 gagtgtcgtg cagcctccag gacccccctt cccgggagag ccatagtggc ctgcggaacc 120
 59 ggtgagtaca ccggaattgc caggacgacc gggctccttc ttggataaac ccgctcaatg 180
 61 cctggagatt tgggcgtgcc cccgcgagac tgctagccga gtagtggttg gtcgcgaaa 240
 63 gccttggtg actgcctgat aggggt 265
 66 <210> SEQ ID NO: 3
 67 <211> LENGTH: 226
 68 <212> TYPE: DNA
 69 <213> ORGANISM: Hepatitis C virus

Does Not Comply
 Corrected Diskette Needed
 (pg. 5)

RAW SEQUENCE LISTING

DATE: 01/30/2006

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TIME: 14:49:24

Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

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71 <400> SEQUENCE: 3
72 ccaggacccc ccctcccgagg agagccatag tggctctgcgg aaccgggtgag tacaccggaa      60
74 ttgccaggac gaccgggtcc tttcttggat aaacccgctc aatgcctgga gatttgggag      120
76 tgcccccgca agactgctag ccgagtagtg ttgggtcgcg aaaggccttg tggtagtgcc      180
78 tgatagggtg cttgcgagtg ccccgaggag tctcgtagac cgtgca      226
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 226
83 <212> TYPE: DNA
84 <213> ORGANISM: Epstein Barr virus
86 <400> SEQUENCE: 4
87 ccaggacccc ccctcccgagg agagccatag tggctctgcgg aaccgggtgag tacaccggaa      60
89 ttgccaggac gaccgggtcc tttcttggat aaatccgctc aatgcctgga gatttgggag      120
91 tgcccccgca agactgctag ccgagtagtg ttgggtcgcg aaaggccttg tggtagtgcc      180
93 tgatagggtg cttgcgagtg ctccggaggag tctcgtagac cgtgca      226
96 <210> SEQ ID NO: 5
97 <211> LENGTH: 131
98 <212> TYPE: DNA
99 <213> ORGANISM: Hepatitis C virus
101 <400> SEQUENCE: 5
102 cactcccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat      60
104 gagtgtcgtg cagcctccag gacccccct cccgggagag ccatagtggg ctgcggaacc      120
106 ggtgagtaca c      131
109 <210> SEQ ID NO: 6
110 <211> LENGTH: 131
111 <212> TYPE: DNA
112 <213> ORGANISM: Epstein Barr virus
114 <400> SEQUENCE: 6
115 cactcccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat      60
117 gagtgtcgtg cagcctccag gacccccct cccgggagag ccatagtggg ctgcggaacc      120
119 ggtgagtaca c      131
122 <210> SEQ ID NO: 7
123 <211> LENGTH: 131
124 <212> TYPE: DNA
125 <213> ORGANISM: Epstein Barr virus
127 <400> SEQUENCE: 7
128 cactcccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat      60
130 gagtgtcgtg cagcctccag gacccccct cccgggagag ccatagtggg ctgcggaacc      120
132 ggtgagtaca c      131
135 <210> SEQ ID NO: 8
136 <211> LENGTH: 131
137 <212> TYPE: DNA
138 <213> ORGANISM: Epstein Barr virus
140 <400> SEQUENCE: 8
141 cactcccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat      60
143 gagtgtcgtg cagcctccag gacccccct cccgggagag ccatagtggg ctgcggaacc      120
145 ggtgagtaca c      131
148 <210> SEQ ID NO: 9
149 <211> LENGTH: 131
150 <212> TYPE: DNA

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RAW SEQUENCE LISTING

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Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

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151 <213> ORGANISM: Epstein Barr virus
153 <400> SEQUENCE: 9
154 cactcccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat      60
156 gagtgtcgtg cagcctccag gacccccccct cccgggagag ccatagtggg ctgcggaacc      120
158 ggtgagtaca c                                                                131
161 <210> SEQ ID NO: 10
162 <211> LENGTH: 131
163 <212> TYPE: DNA
164 <213> ORGANISM: Epstein Barr virus
166 <400> SEQUENCE: 10
167 cactcccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat      60
169 gagtgtcgtg cagcctccag gacccccccct cccgggagag ccatagtggg ctgcggaacc      120
171 ggtgagtaca c                                                                131
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 171
176 <212> TYPE: DNA
177 <213> ORGANISM: Hepatitis C virus
179 <400> SEQUENCE: 11
180 cggaattgcc aggacgaccg ggtcctttct tggataaacc cgctcaatgc ctggagattt      60
182 gggcgtgccc ccgcaagact gctagccgag tagtgttggg tcgcgaaagg ccttgtggta      120
184 ctgcctgata ggggtgcttgc gagtgcctccg ggaggtctcg tagaccgtgc a              171
187 <210> SEQ ID NO: 12
188 <211> LENGTH: 171
189 <212> TYPE: DNA
190 <213> ORGANISM: Epstein Barr virus
192 <400> SEQUENCE: 12
193 cggaattgcc aggacgaccg ggtcctttct tggataaacc cgctcaatgc ctggagattt      60
195 gggcgtgccc ccgcaagact gctagccgag tagtgttggg tcgcgaaagg ccttgtggta      120
197 ctgcctgata ggggtgcttgc gagtgcctccg ggaggtctcg tagaccgtgc a              171
200 <210> SEQ ID NO: 13
201 <211> LENGTH: 171
202 <212> TYPE: DNA
203 <213> ORGANISM: Epstein Barr virus
205 <400> SEQUENCE: 13
206 cggaattgcc aggacgaccg ggtcctttct tggattaacc cgctcaatgc ctggagattt      60
208 gggcgtgccc ccgcgagact gctagccgag tagtgttggg tcgcgaaagg ccttgtggta      120
210 ctgcctgata ggggtgcttgc gagtgcctccg ggaggtctcg tagaccgtgc a              171
213 <210> SEQ ID NO: 14
214 <211> LENGTH: 171
215 <212> TYPE: DNA
216 <213> ORGANISM: Epstein Barr virus
218 <400> SEQUENCE: 14
219 cggaattgcc gggaagactg ggtcctttct tggataaacc cactctatgc ccggccattt      60
221 gggcgtgccc ccgcaagact gctagccgag tagcgttggg ttgcgaaagg ccttgtggta      120
223 ctgcctgata ggggtgcttgc gagtgcctccg ggaggtctcg tagaccgtgc a              171
226 <210> SEQ ID NO: 15
227 <211> LENGTH: 171
228 <212> TYPE: DNA
229 <213> ORGANISM: Epstein Barr virus

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RAW SEQUENCE LISTING

DATE: 01/30/2006

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TIME: 14:49:24

Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

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231 <400> SEQUENCE: 15
232 cgggaattgcc aggacgaccg ggtcctttct tggataaacc cgctcaatgc ctggagattt      60
234 gggcgtgccc ccgcaagact gctagccgag tagtggtggg tcgcgaaagg ccttgtggta      120
236 ctgcctgata ggggtgcttgc gagtgtcccg ggaggtctcg tagaccgtgc a              171
239 <210> SEQ ID NO: 16
240 <211> LENGTH: 171
241 <212> TYPE: DNA
242 <213> ORGANISM: Epstein Barr virus
244 <400> SEQUENCE: 16
245 cgggaattgcc aggacgaccg ggtcctttct tggattaatc cgctcaatgc ctggagattt      60
247 gggcgtgccc ccgcgagact gctagccgag tagtggtggg tcgcgaaagg ccttgtggta      120
249 ctgcctgata ggggtgcttgc gagtgtcccg ggaggtctcg tagaccgtgc a              171
252 <210> SEQ ID NO: 17
253 <211> LENGTH: 383
254 <212> TYPE: DNA
255 <213> ORGANISM: Epstein Barr virus
257 <400> SEQUENCE: 17
258 gccagccccc tgatgggggc gacactccac catgaatcac tcccctgtga ggaactactg      60
260 tcttcacgca gaaagcgtct agccatggcg ttagtatgag tgctgtgcag cctccaggac      120
262 ccccccctccc gggagagcca tagtggtctg cggaaccggt gagtacaccg gaattgccag      180
264 gacgaccggg tcctttcttg gataaaccgg ctcaatgcct ggagatttgg gcgtgcccc      240
266 gcaagactgc tagccgagta gtgttgggtc gcgaaaggcc ttgtggtact gcctgatagg      300
268 gtgcttgcca gtgtcccggg aggtctcgta gaccgtgcac catgagcacg aatcctaaac      360
270 ctcaaagaaa aaccaaactg aac              383
273 <210> SEQ ID NO: 18
274 <211> LENGTH: 26
275 <212> TYPE: DNA
276 <213> ORGANISM: Hepatitis C virus
278 <400> SEQUENCE: 18
279 atggggggcga cactccacca tgaatc              26
282 <210> SEQ ID NO: 19
283 <211> LENGTH: 25
284 <212> TYPE: DNA
285 <213> ORGANISM: Hepatitis C virus
287 <400> SEQUENCE: 19
288 gttacgtttg gtttttcttt gaggt              25
291 <210> SEQ ID NO: 20
292 <211> LENGTH: 24
293 <212> TYPE: DNA
294 <213> ORGANISM: Hepatitis C virus
296 <400> SEQUENCE: 20
297 tgtcttcacg cagaaagcgt ctag              24
300 <210> SEQ ID NO: 21
301 <211> LENGTH: 23
302 <212> TYPE: DNA
303 <213> ORGANISM: Hepatitis C virus
305 <400> SEQUENCE: 21
306 caagcaccct atcaggcagt acc              23
309 <210> SEQ ID NO: 22

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RAW SEQUENCE LISTING

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Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

310 <211> LENGTH: 20
 311 <212> TYPE: DNA
 312 <213> ORGANISM: Artificial
 314 <220> FEATURE:
 315 <223> OTHER INFORMATION: Artificial Construct
 317 <400> SEQUENCE: 22
 318 gtggggcgcc ccaggcacca
 321 <210> SEQ ID NO: 23
 322 <211> LENGTH: 24
 323 <212> TYPE: DNA
 324 <213> ORGANISM: Artificial
 326 <220> FEATURE:
 327 <223> OTHER INFORMATION: Artificial Construct
 329 <400> SEQUENCE: 23
 330 gtccttaatg tcacgcacga ttcc
 333 <210> SEQ ID NO: 24
 334 <211> LENGTH: 21
 335 <212> TYPE: DNA
 336 <213> ORGANISM: Hepatitis C virus
 338 <400> SEQUENCE: 24
 339 gaagatgact tagatgttgt t
 342 <210> SEQ ID NO: 25
 343 <211> LENGTH: 23
 344 <212> TYPE: DNA
 345 <213> ORGANISM: Hepatitis C virus
 347 <400> SEQUENCE: 25
 348 aaccttgata aggtgccatg ctt
 351 <210> SEQ ID NO: 26
 352 <211> LENGTH: 21
 353 <212> TYPE: DNA
 354 <213> ORGANISM: Artificial
 356 <220> FEATURE:
 357 <223> OTHER INFORMATION: Artificial Construct
 359 <400> SEQUENCE: 26
 360 cgtctagcca tggcgtagg t
 363 <210> SEQ ID NO: 27
 364 <211> LENGTH: 17
 365 <212> TYPE: DNA
 366 <213> ORGANISM: Artificial
 368 <220> FEATURE:
 369 <223> OTHER INFORMATION: Artificial Construct
 371 <400> SEQUENCE: 27
 372 cctgcgcggc aagtaaa
 375 <210> SEQ ID NO: 28
 376 <211> LENGTH: 18
 377 <212> TYPE: DNA
 378 <213> ORGANISM: Artificial
 380 <220> FEATURE:
 381 <223> OTHER INFORMATION: Artificial Construct

INVALID
ResponseINVALID
Response

Same error

Same error

Same
error

The type of errors shown exist throughout
 the Sequence Listing. Please check subsequent
 sequences for similar errors.

P/S
 See item
 #11 on
 error
 summary
 sheet.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/564,886

DATE: 01/30/2006
TIME: 14:49:25

Input Set : A:\11168_242.ST25v1 2006 01 16.txt
Output Set: N:\CRF4\01302006\J564886.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 157 ✓

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:22,23,26,27,28,29,30,31,32,33,34,35,36,37

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/564,886

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TIME: 14:49:25

Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:120